



## ***The Products We Use...***

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The Central Mass. Mosquito Control Project uses several different products and/or formulations for biological/physical/chemical mosquito control as part of an Integrated Pest Management (IPM) program. Many factors were involved in choosing these products; environmental concerns, public opinion, cost analysis, and product efficacy. We feel these products present the lowest risk to the public at large and non-target species that are on the market today while maintaining good control against mosquitoes. The links below will explain each product in use by CMMCP; product labels and MSDS sheets are included at each link.

### **LARVAL MOSQUITO CONTROL PRODUCTS:**

#### ***Biological products ("biopesticides"):***

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Bti (*Bacillus thuringiensis israelensis*) – a naturally occurring, non-reproducing bacterium (used in **wetlands**)

Bsph (*Bacillus sphaericus*) – a naturally occurring, non-reproducing bacterium (used in **abandoned swimming pools, catch basins, areas with high organic content**)

Combination Bti/Bsph – new formulations using the benefits of each bacteria in a slow release manner (briquet or granule)

Spinosad (*Saccharopolyspora spinosa*) – a naturally occurring, non-reproducing bacterium (used in **wetlands**)

#### ***Growth regulators:***

Methoprene – an insect growth regulator (IGR) used against mosquito larvae (used in **catch basins**)

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**LARVAL/PUPAL MOSQUITO CONTROL PRODUCT:*****Surfactants:***

BVA® 2 mosquito oil – a highly refined oil used for control of mosquito pupae

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**ADULT MOSQUITO CONTROL PRODUCTS:*****Ultra-low volume (ULV) products:***

Anvil® 10+10 (sumithrin or d-phenothrin) – used for ULV applications

Zenivex® E20 (etofenprox) – used for ULV applications

***Barrier spray products:***

Suspend® SC (deltamethrin) – used for **barrier treatments** (\*new in 2008)

Mavrik® Perimeter (tau-fluvalinate) – used for **barrier treatments** (\*new in 2013)

Anvil®, Zenivex®, Suspend® and Mavrik® are **synthetic pyrethroids** (pyrethrums are found in chrysanthemums, and pyrethroids are a synthetic copy of pyrethrums, and have a lower risk to humans and other non-target organisms).

**Some common pyrethroid products use by consumers include pesticides for common household pests such as ants and wasps; flea and tick shampoos/collars for pets; lice and scabies treatments (shampoos, etc.) for humans; insect repellent clothing, etc.**